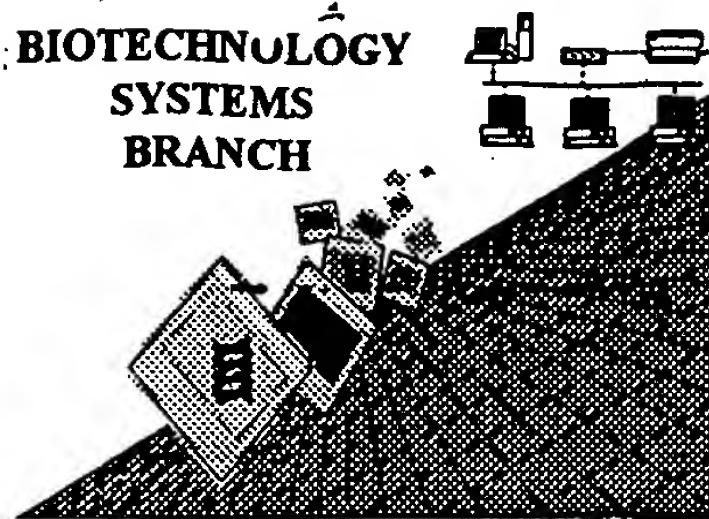


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



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The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/729,141

Source:

~~0018~~ 1652

Date Processed by STIC:

12/14/2000

BEST AVAILABLE COPY

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,141

DATE: 12/14/2000

TIME: 09:17:40
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This Raw Listing contains the General
Information Section and up to the first 5 pages.

all headers
must be in
upper-case letters

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46
GENERAL INFORMATION: SEQUENCE LISTING

(1) General Information:

(i) APPLICANT:

(A) NAME: Logemann, Juergen

(B) STREET: Lavendeltuin 5

(C) CITY: NB Leiden

(E) COUNTRY: The Netherlands

(F) POSTAL CODE (ZIP): 2317

(A) NAME: Jach, Guido

(B) STREET: Maternusstrasse 22

(C) CITY: Keeln

(E) COUNTRY: Germany

(F) POSTAL CODE (ZIP): 50678

(A) NAME: Goernhardt, Birgit

(B) STREET: Auf dem Knepp 28

(C) CITY: Koeln

(E) COUNTRY: Germany

(F) POSTAL CODE (ZIP): 51145

(A) NAME: Mundy, John

(B) STREET: NY Carlsberg Vej 6, 4th

(C) CITY: V Copenhagen

(E) COUNTRY: Denmark

(F) POSTAL CODE (ZIP): 1760

(A) NAME: Schell, Jeff

(B) STREET: Carl-von-Linne-Weg 10

(C) CITY: Koeln

(E) COUNTRY: Germany

(F) POSTAL CODE (ZIP): 50829

(A) NAME: Eckes, Peter

(B) STREET: Am Flachsland 18

(C) CITY: Kelkheim (Taunus)

(E) COUNTRY: Germany

(F) POSTAL CODE (ZIP): 65779

(A) NAME: Chet, Ilan

(B) STREET: Shikun-Ezrachi

(C) CITY: Nes-Ziona

(E) COUNTRY: Israel

(F) POSTAL CODE (ZIP): 70400

Does Not Comply
Corrected Diskette Needed
must be on same line as
heading

FYI:

EPO format is
invalid for a U.S.
case

delete
these
lines

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,141DATE: 12/14/2000
TIME: 03:17:40

INPUT SET: S36208.raw

47
48 (ii) TITLE OF INVENTION: Transgenic pathogen-resistant organism
49
50 (iii) NUMBER OF SEQUENCES: 12
51
52 (iv) CORRESPONDENCE ADDRESS:
53 (A) ADDRESSEE: Baker & Botts
54 (B) STREET: 30 Rockefeller Plaza
55 (C) CITY: New York
56 (D) STATE: New York
57 (E) COUNTRY: U.S.A.
58 (F) ZIP: 10112
59
60 (v) COMPUTER READABLE FORM:
61 (A) MEDIUM TYPE: Floppy disk
62 (B) COMPUTER: IBM PC compatible
63 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
64 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
65
66 (vi) CURRENT APPLICATION DATA:
67 (A) APPLICATION NUMBER: ~~reissue application of U.S. Patent No.~~
68 5,804,184
69 (B) FILING DATE: herewith
70
71 (vii) ~~(vii)~~ ATTORNEY/AGENT INFORMATION:
72 (A) ~~ATTORNEY~~ NAME: Tenser, Arthur
73 (B) REGISTRATION NUMBER: 18,839
74 (A) ~~(C)~~ ~~AGENT~~ NAME: Kole, Lisa
75 (B) ~~(D)~~ REGISTRATION NUMBER: 35,225
76 (C) ~~(E)~~ REFERENCE NO: A29542 FWC I- 37/31335
77 REFERENCE/DOCKET NUMBER:
78 (ix) ~~(viii)~~ TELECOMMUNICATION INFORMATION:
79 (A) TELEPHONE: (212) 408-2500
80 (B) TELEFAX: (212) 765-2519
81 (C) TELEX: 238555
82
83
84 (2) INFORMATION FOR SEQ ID NO: 1:
85
86 (i) SEQUENCE CHARACTERISTICS:
87 (A) LENGTH: 275 base pairs
88 (B) TYPE: nucleic acid
89 (C) STRANDEDNESS: single
90 (D) TOPOLOGY: linear
91
92 (ii) MOLECULE TYPE: cDNA
93
94 (vi) ORIGINAL SOURCE:
95 (A) ORGANISM: Aspergillus giganteus
96
97 (ix) FEATURE:
98 (A) NAME/KEY: 5'UTR
99 (B) LOCATION: 1..45

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(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE:

use

the
serial
number

instead of

the patent
number and

insert it

next to

(A) APPLICATION NUMBER:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,141DATE: 12/14/2000
TIME: 03:17:40

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100
101 (ix) FEATURE:
102 (A) NAME/KEY: CDS
103 (B) LOCATION: 46..225
104 (C) IDENTIFICATION METHOD: experimental
105 (D) OTHER INFORMATION: /codon_start= 46
106 /function= "antifungal agent"
107 /product= "antifungal peptide)"
108 /evidence= EXPERIMENTAL
109 /note= "antifungal agent, especially on
110 Rhizoctonia solani, various Aspergillus, Fusaria
111 and Trichophyton species"
112
113
114

115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
116

117 TTGCCACCCC CGTTGAAGCC GATTCTCTCA CCGCTGGTGG TCTGG ATG CAA GAG 54
118 Met Gln Glu
119 1
120
121 ATG AGA GCG CGG GTT TTG GCC ACA TAC AAT GGC AAA TGC TAC AAG AAG 102
122 Met Arg Ala Arg Val Leu Ala Thr Tyr Asn Gly Lys Cys Tyr Lys Lys
123 5 10 15
124
125 GAT AAT ATC TGC AAG TAC AAG GCA CAG AGC GGC AAG ACT GCC ATT TGC 150
126 Asp Asn Ile Cys Lys Tyr Lys Ala Gln Ser Gly Lys Thr Ala Ile Cys
127 20 25 30 35
128
129 AAG TGC TAT GTC AAA AAG TGC CCC CGC GAC GGC GCG AAA TGC GAG TTT 198
130 Lys Cys Tyr Val Lys Lys Cys Pro Arg Asp Gly Ala Lys Cys Glu Phe
131 40 45 50
132
133 GAC AGC TAC AAG GGG AAG TGC TAC TGC TAGACGGTGA GCGAAGGGAC 245
134
135 Asp Ser Tyr Lys Gly Lys Cys Tyr Cys
136 55 60
137
138 GAAGTAGGCT GGGGGTTATT TTACTCTGCT 275
139
140
141

142 (2) INFORMATION FOR SEQ ID NO: 2:
143

144 (i) SEQUENCE CHARACTERISTICS:
145 (A) LENGTH: 60 amino acids
146 (B) TYPE: amino acid
147 (D) TOPOLOGY: linear
148

149 (ii) MOLECULE TYPE: protein
150

151 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,141DATE: 12/14/2000
TIME: 03:17:41

INPUT SET: S36208.raw

153 Met Gln Glu Met Arg Ala Arg Val Leu Ala Thr Tyr Asn Gly Lys Cys
154 1 5 10 15
155
156 Tyr Lys Lys Asp Asn Ile Cys Lys Tyr Lys Ala Gln Ser Gly Lys Thr
157 20 25 30
158
159 Ala Ile Cys Lys Cys Tyr Val Lys Lys Cys Pro Arg Asp Gly Ala Lys
160 35 40 45
161
162 Cys Glu Phe Asp Ser Tyr Lys Gly Lys Cys Tyr Cys
163 50 55 60
164
165
166

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 51 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: C-terminal

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Aspergillus giganteus

(ix) FEATURE:

(A) NAME/KEY: Protein

(B) LOCATION: 1..51

(D) OTHER INFORMATION: /note= "active protein fragment of
AFP"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

190 Ala Thr Tyr Asn Gly Lys Cys Tyr Lys Lys Asp Asn Ile Cys Lys Tyr
191 1 5 10 15
192
193 Lys Ala Gln Ser Gly Lys Thr Ala Ile Cys Lys Cys Tyr Val Lys Lys
194 20 25 30
195
196 Cys Pro Arg Asp Gly Ala Lys Cys Glu Phe Asp Ser Tyr Lys Gly Lys
197 35 40 45
198
199 Cys Tyr Cys
200 50
201
202

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/729,141DATE: 12/14/2000
TIME: 03:17:41

INPUT SET: S36208.raw

206 (A) LENGTH: 1032 base pairs
207 (B) TYPE: nucleic acid
208 (C) STRANDEDNESS: single
209 (D) TOPOLOGY: linear
210
211 (ii) MOLECULE TYPE: cDNA
212
213 (vi) ORIGINAL SOURCE:
214 (A) ORGANISM: Hordeum vulgare
215 (B) STRAIN: L.cv. Piggy
216
217 (vii) IMMEDIATE SOURCE:
218 (A) LIBRARY: cDNA gene bank in lambda-gt-11-phages
219
220 (ix) FEATURE:
221 (A) NAME/KEY: 5'UTR
222 (B) LOCATION: 1..42
223
224 (ix) FEATURE:
225 (A) NAME/KEY: CDS
226 (B) LOCATION: 43..885
227 (D) OTHER INFORMATION: /codon_start= 43
228 /function= "antifungal activity"
229 /product= "protein synthesis inhibitor (PSI)"
230 /note= "antifungal activity, especially on spores
231 of Trichoderma reesii and Fusarium sporotrichoides
232 and on Rhizoctonia solani."
233
234 (ix) FEATURE:
235 (A) NAME/KEY: 3'UTR
236 (B) LOCATION: 886..1032
237 (D) OTHER INFORMATION: /partial
238 /note= "46 nucleotides at the 3'-end not shown."
239

SEQUENCE VERIFICATION REPORT

PATENT APPLICATION US/09/729,141

DATE: 12/14/2000
TIME: 03:17:42

INPUT SET: S36208.raw

Line	Error	Original Text
5	Mandatory Value Not Present	(i) APPLICANT:
6	Unknown or Misplaced Identifier	(A) NAME: Logemann, Juergen
7	Unknown or Misplaced Identifier	(B) STREET: Lavendeltuyn 5
8	Unknown or Misplaced Identifier	(C) CITY: NB Leiden
9	Unknown or Misplaced Identifier	(E) COUNTRY: The Netherlands
10	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 2317
12	Unknown or Misplaced Identifier	(A) NAME: Jach, Guido
13	Unknown or Misplaced Identifier	(B) STREET: Maternusstrasse 22
14	Unknown or Misplaced Identifier	(C) CITY: Koeln
15	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
16	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 50678
18	Unknown or Misplaced Identifier	(A) NAME: Goernhardt, Birgit
19	Unknown or Misplaced Identifier	(B) STREET: Auf dem Knoepp 28
20	Unknown or Misplaced Identifier	(C) CITY: Koeln
21	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
22	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 51145
24	Unknown or Misplaced Identifier	(A) NAME: Mundy, John
25	Unknown or Misplaced Identifier	(B) STREET: NY Carlsberg Vej 6, 4th
26	Unknown or Misplaced Identifier	(C) CITY: V Copenhagen
27	Unknown or Misplaced Identifier	(E) COUNTRY: Denmark
28	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 1760
30	Unknown or Misplaced Identifier	(A) NAME: Schell, Jeff
31	Unknown or Misplaced Identifier	(B) STREET: Carl-von-Linne-Weg 10
32	Unknown or Misplaced Identifier	(C) CITY: Koeln
33	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
34	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 50829
36	Unknown or Misplaced Identifier	(A) NAME: Eckes, Peter
37	Unknown or Misplaced Identifier	(B) STREET: Am Flachsland 18
38	Unknown or Misplaced Identifier	(C) CITY: Kelkheim (Taunus)
39	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
40	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 65779
42	Unknown or Misplaced Identifier	(A) NAME: Chet, Ilan
43	Unknown or Misplaced Identifier	(B) STREET: Shikun Ezrachi
44	Unknown or Misplaced Identifier	(C) CITY: Nes Ziona
45	Unknown or Misplaced Identifier	(E) COUNTRY: Israel
46	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 70400
67	Wrong application Serial Number	(A) APPLICATION NUMBER: reissue application of U.S.
72	Unknown or Misplaced Identifier	(A) ATTORNEY NAME: Tenser, Arthur
74	Unknown or Misplaced Identifier	(C) AGENT NAME: Kole, Lisa